

# **Mewbourne Oil Company**

Lea County, New Mexico

Red Hills West Unit #017H

Sec 10, T26S, R32E

SL: 1200' FNL & 710' FWL, Sec 10

BHL: 330' FNL & 770' FWL, Sec 3

Plan: Design #1

## **Standard Planning Report**

10 April, 2015

# Planning Report

|           |                                 |                              |                                        |
|-----------|---------------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                           | Local Co-ordinate Reference: | Site Red Hills West Unit #017H         |
| Company:  | Mewbourne Oil Company           | TVD Reference:               | WELL @ 3265.0usft (Original Well Elev) |
| Project:  | Lea County, New Mexico          | MD Reference:                | WELL @ 3265.0usft (Original Well Elev) |
| Site:     | Red Hills West Unit #017H       | North Reference:             | Grid                                   |
| Well:     | Sec 10, T26S, R32E              | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL: 330' FNL & 770' FWL, Sec 3 |                              |                                        |
| Design:   | Design #1                       |                              |                                        |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Lea County, New Mexico               |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                       |          |                           |                 |                   |                  |
|-----------------------|----------|---------------------------|-----------------|-------------------|------------------|
| Site                  |          | Red Hills West Unit #017H |                 |                   |                  |
| Site Position:        |          | Northing:                 | 386,753.10 usft | Latitude:         | 32° 3' 41.604 N  |
| From:                 | Map      | Easting:                  | 705,912.20 usft | Longitude:        | 103° 40' 7.144 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:              | 13-3/16 "       | Grid Convergence: | 0.35 °           |

|                      |                    |          |                     |                 |               |                  |
|----------------------|--------------------|----------|---------------------|-----------------|---------------|------------------|
| Well                 | Sec 10, T26S, R32E |          |                     |                 |               |                  |
| Well Position        | +N/-S              | 0.0 usft | Northing:           | 386,753.10 usft | Latitude:     | 32° 3' 41.604 N  |
|                      | +E/-W              | 0.0 usft | Easting:            | 705,912.20 usft | Longitude:    | 103° 40' 7.144 W |
| Position Uncertainty |                    | 0.0 usft | Wellhead Elevation: | 3,265.0 usft    | Ground Level: | 3,245.0 usft     |

|           |                                 |             |                 |               |                     |
|-----------|---------------------------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | BHL: 330' FNL & 770' FWL, Sec 3 |             |                 |               |                     |
| Magnetics | Model Name                      | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2010                        | 4/10/2015   | 7.15            | 59.92         | 48,128              |

|                   |                         |              |               |               |
|-------------------|-------------------------|--------------|---------------|---------------|
| Design            | Design #1               |              |               |               |
| Audit Notes:      |                         |              |               |               |
| Version:          | Phase:                  | PROTOTYPE    | Tie On Depth: | 0.0           |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft)  | Direction (°) |
|                   | 0.0                     | 0.0          | 0.0           | 0.00          |

|                       |                 |             |                       |              |              |                         |                        |                       |         |                      |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------------|
| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                      |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target               |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 8,852.0               | 0.00            | 0.00        | 8,852.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 9,755.6               | 90.36           | 360.00      | 9,425.0               | 576.6        | 0.0          | 10.00                   | 10.00                  | 0.00                  | 0.00    |                      |
| 15,393.2              | 90.36           | 360.00      | 9,390.0               | 6,214.0      | -0.1         | 0.00                    | 0.00                   | 0.00                  | 0.00    | BHL: 330 FNL & 770 I |

# Planning Report

|           |                                 |                              |                                        |
|-----------|---------------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                           | Local Co-ordinate Reference: | Site Red Hills West Unit #017H         |
| Company:  | Mewbourne Oil Company           | TVD Reference:               | WELL @ 3265.0usft (Original Well Elev) |
| Project:  | Lea County, New Mexico          | MD Reference:                | WELL @ 3265.0usft (Original Well Elev) |
| Site:     | Red Hills West Unit #017H       | North Reference:             | Grid                                   |
| Well:     | Sec 10, T26S, R32E              | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL: 330' FNL & 770' FWL, Sec 3 |                              |                                        |
| Design:   | Design #1                       |                              |                                        |

| Planned Survey                 |                 |             |                       |              |              |                         |                         |                        |                       |
|--------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)          | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0                            | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| SL: 1200 FNL & 710 FWL, Sec 10 |                 |             |                       |              |              |                         |                         |                        |                       |
| 100.0                          | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                          | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                          | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                          | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                          | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                          | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                          | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                          | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                          | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0                        | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0                        | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0                        | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0                        | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0                        | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0                        | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0                        | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0                        | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0                        | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0                        | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                        | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0                        | 0.00            | 0.00        | 2,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0                        | 0.00            | 0.00        | 2,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0                        | 0.00            | 0.00        | 2,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0                        | 0.00            | 0.00        | 2,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                        | 0.00            | 0.00        | 2,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0                        | 0.00            | 0.00        | 2,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0                        | 0.00            | 0.00        | 2,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0                        | 0.00            | 0.00        | 2,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0                        | 0.00            | 0.00        | 2,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0                        | 0.00            | 0.00        | 3,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0                        | 0.00            | 0.00        | 3,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0                        | 0.00            | 0.00        | 3,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0                        | 0.00            | 0.00        | 3,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0                        | 0.00            | 0.00        | 3,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0                        | 0.00            | 0.00        | 3,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0                        | 0.00            | 0.00        | 3,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0                        | 0.00            | 0.00        | 3,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0                        | 0.00            | 0.00        | 3,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0                        | 0.00            | 0.00        | 3,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0                        | 0.00            | 0.00        | 4,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0                        | 0.00            | 0.00        | 4,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0                        | 0.00            | 0.00        | 4,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0                        | 0.00            | 0.00        | 4,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0                        | 0.00            | 0.00        | 4,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0                        | 0.00            | 0.00        | 4,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0                        | 0.00            | 0.00        | 4,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0                        | 0.00            | 0.00        | 4,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0                        | 0.00            | 0.00        | 4,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0                        | 0.00            | 0.00        | 4,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0                        | 0.00            | 0.00        | 5,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0                        | 0.00            | 0.00        | 5,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0                        | 0.00            | 0.00        | 5,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

|           |                                |                              |                                        |
|-----------|--------------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                          | Local Co-ordinate Reference: | Site Red Hills West Unit #017H         |
| Company:  | Mewbourne Oil Company          | TVD Reference:               | WELL @ 3265.0usft (Original Well Elev) |
| Project:  | Lea County, New Mexico         | MD Reference:                | WELL @ 3265.0usft (Original Well Elev) |
| Site:     | Red Hills West Unit #017H      | North Reference:             | Grid                                   |
| Well:     | Sec 10, T26S, R32E             | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL 330' FNL & 770' FWL, Sec 3 |                              |                                        |
| Design:   | Design #1                      |                              |                                        |

| Planned Survey                |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft)         | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 5,300.0                       | 0.00            | 0.00        | 5,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,400.0                       | 0.00            | 0.00        | 5,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,500.0                       | 0.00            | 0.00        | 5,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,600.0                       | 0.00            | 0.00        | 5,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,700.0                       | 0.00            | 0.00        | 5,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,800.0                       | 0.00            | 0.00        | 5,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,900.0                       | 0.00            | 0.00        | 5,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,000.0                       | 0.00            | 0.00        | 6,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,100.0                       | 0.00            | 0.00        | 6,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,200.0                       | 0.00            | 0.00        | 6,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,300.0                       | 0.00            | 0.00        | 6,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,400.0                       | 0.00            | 0.00        | 6,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,500.0                       | 0.00            | 0.00        | 6,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,600.0                       | 0.00            | 0.00        | 6,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,700.0                       | 0.00            | 0.00        | 6,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,800.0                       | 0.00            | 0.00        | 6,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,900.0                       | 0.00            | 0.00        | 6,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,000.0                       | 0.00            | 0.00        | 7,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,100.0                       | 0.00            | 0.00        | 7,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,200.0                       | 0.00            | 0.00        | 7,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,300.0                       | 0.00            | 0.00        | 7,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,400.0                       | 0.00            | 0.00        | 7,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,500.0                       | 0.00            | 0.00        | 7,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,600.0                       | 0.00            | 0.00        | 7,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,700.0                       | 0.00            | 0.00        | 7,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,800.0                       | 0.00            | 0.00        | 7,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,900.0                       | 0.00            | 0.00        | 7,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,000.0                       | 0.00            | 0.00        | 8,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,100.0                       | 0.00            | 0.00        | 8,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,200.0                       | 0.00            | 0.00        | 8,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,300.0                       | 0.00            | 0.00        | 8,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,400.0                       | 0.00            | 0.00        | 8,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,500.0                       | 0.00            | 0.00        | 8,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,600.0                       | 0.00            | 0.00        | 8,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,700.0                       | 0.00            | 0.00        | 8,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,800.0                       | 0.00            | 0.00        | 8,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,852.0                       | 0.00            | 0.00        | 8,852.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| KOP @ 8852                    |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 8,900.0                       | 4.80            | 360.00      | 8,899.9               | 2.0          | 0.0          | 2.0                     | 10.00                   | 10.00                  | 0.00                  |  |
| 9,000.0                       | 14.80           | 360.00      | 8,998.4               | 19.0         | 0.0          | 19.0                    | 10.00                   | 10.00                  | 0.00                  |  |
| 9,100.0                       | 24.80           | 360.00      | 9,092.3               | 52.8         | 0.0          | 52.8                    | 10.00                   | 10.00                  | 0.00                  |  |
| 9,200.0                       | 34.80           | 360.00      | 9,179.0               | 102.5        | 0.0          | 102.5                   | 10.00                   | 10.00                  | 0.00                  |  |
| 9,300.0                       | 44.80           | 360.00      | 9,255.7               | 166.4        | 0.0          | 166.4                   | 10.00                   | 10.00                  | 0.00                  |  |
| 9,400.0                       | 54.79           | 360.00      | 9,320.2               | 242.7        | 0.0          | 242.7                   | 10.00                   | 10.00                  | 0.00                  |  |
| 9,500.0                       | 64.79           | 360.00      | 9,370.5               | 329.0        | 0.0          | 329.0                   | 10.00                   | 10.00                  | 0.00                  |  |
| 9,600.0                       | 74.79           | 360.00      | 9,404.9               | 422.7        | 0.0          | 422.7                   | 10.00                   | 10.00                  | 0.00                  |  |
| 9,700.0                       | 84.79           | 360.00      | 9,422.6               | 521.0        | 0.0          | 521.0                   | 10.00                   | 10.00                  | 0.00                  |  |
| 9,755.7                       | 90.36           | 360.00      | 9,425.0               | 576.6        | 0.0          | 576.6                   | 9.99                    | 9.99                   | 0.00                  |  |
| LP: 623 FNL & 722 FWL, Sec 10 |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,800.0                       | 90.36           | 360.00      | 9,424.7               | 620.9        | 0.0          | 620.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 9,900.0                       | 90.36           | 360.00      | 9,424.1               | 720.9        | 0.0          | 720.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 10,000.0                      | 90.36           | 360.00      | 9,423.5               | 820.9        | 0.0          | 820.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 10,100.0                      | 90.36           | 360.00      | 9,422.9               | 920.9        | 0.0          | 920.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 10,200.0                      | 90.36           | 360.00      | 9,422.2               | 1,020.9      | 0.0          | 1,020.9                 | 0.00                    | 0.00                   | 0.00                  |  |

# Planning Report

|           |                                 |                              |                                        |
|-----------|---------------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                           | Local Co-ordinate Reference: | Site Red Hills West Unit #017H         |
| Company:  | Mewbourne Oil Company           | TVD Reference:               | WELL @ 3265.0usft (Original Well Elev) |
| Project:  | Lea County, New Mexico          | MD Reference:                | WELL @ 3265.0usft (Original Well Elev) |
| Site:     | Red Hills West Unit #017H       | North Reference:             | Grid                                   |
| Well:     | Sec 10, T26S, R32E              | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL: 330' FNL & 770' FWL, Sec 3 |                              |                                        |
| Design:   | Design #1                       |                              |                                        |

## Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,300.0              | 90.36           | 360.00      | 9,421.6               | 1,120.9     | 0.0         | 1,120.9                 | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 90.36           | 360.00      | 9,421.0               | 1,220.9     | 0.0         | 1,220.9                 | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 90.36           | 360.00      | 9,420.4               | 1,320.9     | 0.0         | 1,320.9                 | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0              | 90.36           | 360.00      | 9,419.8               | 1,420.9     | 0.0         | 1,420.9                 | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0              | 90.36           | 360.00      | 9,419.1               | 1,520.9     | 0.0         | 1,520.9                 | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0              | 90.36           | 360.00      | 9,418.5               | 1,620.9     | 0.0         | 1,620.9                 | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0              | 90.36           | 360.00      | 9,417.9               | 1,720.9     | 0.0         | 1,720.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0              | 90.36           | 360.00      | 9,417.3               | 1,820.9     | 0.0         | 1,820.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0              | 90.36           | 360.00      | 9,416.7               | 1,920.9     | 0.0         | 1,920.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0              | 90.36           | 360.00      | 9,416.0               | 2,020.9     | 0.0         | 2,020.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0              | 90.36           | 360.00      | 9,415.4               | 2,120.9     | 0.0         | 2,120.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0              | 90.36           | 360.00      | 9,414.8               | 2,220.9     | 0.0         | 2,220.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0              | 90.36           | 360.00      | 9,414.2               | 2,320.9     | 0.0         | 2,320.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0              | 90.36           | 360.00      | 9,413.5               | 2,420.9     | 0.0         | 2,420.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0              | 90.36           | 360.00      | 9,412.9               | 2,520.9     | 0.0         | 2,520.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0              | 90.36           | 360.00      | 9,412.3               | 2,620.9     | 0.0         | 2,620.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0              | 90.36           | 360.00      | 9,411.7               | 2,720.9     | 0.0         | 2,720.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0              | 90.36           | 360.00      | 9,411.1               | 2,820.9     | 0.0         | 2,820.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0              | 90.36           | 360.00      | 9,410.4               | 2,920.9     | 0.0         | 2,920.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0              | 90.36           | 360.00      | 9,409.8               | 3,020.9     | 0.0         | 3,020.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0              | 90.36           | 360.00      | 9,409.2               | 3,120.9     | -0.1        | 3,120.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0              | 90.36           | 360.00      | 9,408.6               | 3,220.9     | -0.1        | 3,220.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0              | 90.36           | 360.00      | 9,408.0               | 3,320.9     | -0.1        | 3,320.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0              | 90.36           | 360.00      | 9,407.3               | 3,420.9     | -0.1        | 3,420.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0              | 90.36           | 360.00      | 9,406.7               | 3,520.9     | -0.1        | 3,520.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0              | 90.36           | 360.00      | 9,406.1               | 3,620.9     | -0.1        | 3,620.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0              | 90.36           | 360.00      | 9,405.5               | 3,720.9     | -0.1        | 3,720.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0              | 90.36           | 360.00      | 9,404.9               | 3,820.9     | -0.1        | 3,820.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0              | 90.36           | 360.00      | 9,404.2               | 3,920.9     | -0.1        | 3,920.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0              | 90.36           | 360.00      | 9,403.6               | 4,020.9     | -0.1        | 4,020.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0              | 90.36           | 360.00      | 9,403.0               | 4,120.9     | -0.1        | 4,120.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.36           | 360.00      | 9,402.4               | 4,220.9     | -0.1        | 4,220.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.36           | 360.00      | 9,401.8               | 4,320.9     | -0.1        | 4,320.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.36           | 360.00      | 9,401.1               | 4,420.9     | -0.1        | 4,420.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.36           | 360.00      | 9,400.5               | 4,520.9     | -0.1        | 4,520.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.36           | 360.00      | 9,399.9               | 4,620.8     | -0.1        | 4,620.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.36           | 360.00      | 9,399.3               | 4,720.8     | -0.1        | 4,720.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.36           | 360.00      | 9,398.6               | 4,820.8     | -0.1        | 4,820.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.36           | 360.00      | 9,398.0               | 4,920.8     | -0.1        | 4,920.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.36           | 360.00      | 9,397.4               | 5,020.8     | -0.1        | 5,020.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.36           | 360.00      | 9,396.8               | 5,120.8     | -0.1        | 5,120.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.36           | 360.00      | 9,396.2               | 5,220.8     | -0.1        | 5,220.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.36           | 360.00      | 9,395.5               | 5,320.8     | -0.1        | 5,320.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.36           | 360.00      | 9,394.9               | 5,420.8     | -0.1        | 5,420.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.36           | 360.00      | 9,394.3               | 5,520.8     | -0.1        | 5,520.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.36           | 360.00      | 9,393.7               | 5,620.8     | -0.1        | 5,620.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.36           | 360.00      | 9,393.1               | 5,720.8     | -0.1        | 5,720.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.36           | 360.00      | 9,392.4               | 5,820.8     | -0.1        | 5,820.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0              | 90.36           | 360.00      | 9,391.8               | 5,920.8     | -0.1        | 5,920.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 90.36           | 360.00      | 9,391.2               | 6,020.8     | -0.1        | 6,020.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.36           | 360.00      | 9,390.6               | 6,120.8     | -0.1        | 6,120.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,393.2              | 90.36           | 360.00      | 9,390.0               | 6,214.0     | -0.1        | 6,214.0                 | 0.00                    | 0.00                   | 0.00                  |

BHL: 330 FNL & 770 FWL, Sec 3

# Planning Report

|           |                                 |                              |                                        |
|-----------|---------------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                           | Local Co-ordinate Reference: | Site Red Hills West Unit #017H         |
| Company:  | Mewbourne Oil Company           | TVD Reference:               | WELL @ 3265.0usft (Original Well Elev) |
| Project:  | Lea County, New Mexico          | MD Reference:                | WELL @ 3265.0usft (Original Well Elev) |
| Site:     | Red Hills West Unit #017H       | North Reference:             | Grid                                   |
| Well:     | Sec 10, T26S, R32E              | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL: 330' FNL & 770' FWL, Sec 3 |                              |                                        |
| Design:   | Design #1                       |                              |                                        |

| Design Targets                                                |                  |                 |               |                 |                 |                    |                   |                 |                  |
|---------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------------|------------------|
| Target Name<br>- hit/miss target<br>- Shape                   | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude        | Longitude        |
| SL: 1200 FNL & 710 FW<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 0.0           | 0.0             | 0.0             | 386,753.10         | 705,912.20        | 32° 3' 41.604 N | 103° 40' 7.144 W |
| KOP @ 8852<br>- plan hits target center<br>- Point            | 0.00             | 0.00            | 8,852.0       | 0.0             | 0.0             | 386,753.10         | 705,912.20        | 32° 3' 41.604 N | 103° 40' 7.144 W |
| BHL: 330 FNL & 770 FW<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 9,390.0       | 6,214.0         | -0.1            | 392,967.10         | 705,912.10        | 32° 4' 43.097 N | 103° 40' 6.700 W |
| LP: 623 FNL & 722 FWL<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 9,425.0       | 576.6           | 0.0             | 387,329.70         | 705,912.20        | 32° 3' 47.310 N | 103° 40' 7.103 W |